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Exhibit R-2, RDT&E Budget Item Justification: PB 2011 Navy									DATE: February 2010		
APPROPRIATION/BUDGET ACTIVITY 1319: Research, Development, Test & Evaluation, Navy BA 6: RDT&E Management Support				R-1 ITEM NOMENCLATURE PE 0604258N: Target Systems Development							
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
Total Program Element	76.018	79.273	66.066	0.000	66.066	52.874	39.180	38.439	39.351	Continuing	Continuing
0609: Aerial Target System Dev	47.648	55.390	49.456	0.000	49.456	30.655	15.226	13.794	14.076	Continuing	Continuing
0610: Wpn Sys T&E Trng Dev/ Proc	26.068	22.671	15.190	0.000	15.190	20.788	22.499	23.157	23.757	Continuing	Continuing
0612: Surface Targets Development	2.302	1.212	1.420	0.000	1.420	1.431	1.455	1.488	1.518	Continuing	Continuing
A. Mission Description and Budget Item Justification											
This program element funds the development and procurement of aerial targets, sea surface targets, control systems, and associated target augmentation and auxiliary systems needed to represent real world threat systems. These capabilities are key enablers to the successful execution of the developmental and operational test and evaluation of naval combat weapons systems and to the satisfaction of advanced fleet training requirements.											
This program element includes \$0.011 Million for the Acquisition Workforce in FY2009.											
B. Program Change Summary (\$ in Millions)											
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total						
Previous President's Budget	79.858	79.603	0.000	0.000	0.000						
Current President's Budget	76.018	79.273	66.066	0.000	66.066						
Total Adjustments	-3.840	-0.330	66.066	0.000	66.066						
• Congressional General Reductions		-0.330									
• Congressional Directed Reductions		0.000									
• Congressional Rescissions	0.000	0.000									
• Congressional Adds		0.000									
• Congressional Directed Transfers		0.000									
• Reprogrammings	-1.496	0.000									
• SBIR/STTR Transfer	-2.345	0.000									
• Program Adjustments	0.000	0.000	66.066	0.000	66.066						
• Rate/Misc Adjustments	0.001	0.000	0.000	0.000	0.000						

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<p><u>Change Summary Explanation</u></p> <p>Technical: Not applicable.</p> <p>Schedule: Not applicable.</p> <p>FY11 from previous President's Budget is shown as zero because no FY11-15 data was presented in President's Budget 2010.</p>		

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APPROPRIATION/BUDGET ACTIVITY 1319: <i>Research, Development, Test & Evaluation, Navy</i> BA 6: <i>RDT&E Management Support</i>				R-1 ITEM NOMENCLATURE PE 0604258N: <i>Target Systems Development</i>				PROJECT 0609: <i>Aerial Target System Dev</i>			
COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
0609: <i>Aerial Target System Dev</i>	47.648	55.390	49.456	0.000	49.456	30.655	15.226	13.794	14.076	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification Aerial target systems, target control, and associated target augmentation and auxiliary systems are developed to support test & evaluation and advanced fleet training for Joint Strike and Littoral Warfare Systems required to defend fleet surface and air units in a hostile environment. This project includes - Subsonic Targets. Subsonic Aerial Target (SSAT) development. The SSAT primarily represents subsonic anti-ship cruise missile threats in direct support of the test & evaluation of major combat weapons systems programs and fleet training. - Supersonic Targets. Supersonic Sea Skimming Target (SSST), Multi-Stage Supersonic Target (MSST) and supersonic high-diver capability development. The family of supersonic target capabilities represents supersonic anti-ship cruise missile threats in direct support of developmental & operational test and evaluation of major combat weapons systems programs in development. - Target Control (TC) and Target Augmentation & Auxiliary Systems (TA/AS) development. TC provides command and control of targets to enable the execution of threat representative mission profiles. TA/AS enables each target to be uniquely configured for specific mission profiles. TA/AS configured targets are used for radar acquisition test, electronic countermeasures (jamming) evaluation, infrared measurement/test, radar cross section evaluation, decoy effectiveness, maneuver analysis, electronic warfare, warhead effectiveness and evaluation of fleet tactics. TA/AS scoring capabilities include both surface and airborne scalar and vector scoring systems.											
B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
Supersonic Aerial Targets						36.793	44.417	29.207	0.000	29.207	
Multi-Stage Supersonic Target (MSST) emulates a two-stage Anti Ship Cruise Missile. The MSST will have a bus stage that will tumble and fall into the sea, and a sprint stage that continues flight to impact. The fielded system will provide threat representation in support of DOT and will identify deficiencies in shipboard air defense systems. Funding will continue GQM-163 SSST upgrades/											

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
evolutionary development to keep pace with evolving threat characteristics. Efforts include continuing to establish operational capability at Pacific Missile Range Facility, developing performance envelope characteristics to include flight termination performance, and continuing development of high-diver capability. FY 2009 Accomplishments: Held Post Award Conference. Held program's Startup Workshop. Held program's System Requirements Review (SRR). Held a successful Management Systems Assessment and Schedule Risk Assessment. Participated in subcontractor's Integrated Baseline Review (IBR). Renegotiated SDD Contract for equitable adjustment necessitated by protest. Held IBR with Prime Contractor. Held a Program Management Review. FY 2010 Plans: Hold the program's Systems Functional Review. Hold the program's Systems Software Review. Hold the program's Preliminary Design Review. Participate in the Technology Assessment Review. Hold quarterly Program Management Reviews and hold quarterly Schedule Risk Assessments. FY 2011 Base Plans: Test the EEU #2 unit, Hold the program's Critical Design Review, T&E training to begin, Hold the program's Integrated Readiness Review, Hold the program's Technology Readiness Review, Hold quarterly Program Management Reviews, and Hold quarterly Schedule Risk Assessments.						
Subsonic Aerial Targets Continue Subsonic Aerial Target development to keep pace with evolving threat requirements. Incorporate configuration control requirements into RFP and System Engineering Plan. Conduct source selection for the Engineering and Manufacturing Development phase (EMD). Manage the execution of the EMD phase and conduct and support reviews and development decisions.		3.641	4.816	13.300	0.000	13.300

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
FY 2009 Accomplishments: Defined requirements; developed RFP package.						
FY 2010 Plans: Release RFP, conduct source selection, and award contract.						
FY 2011 Base Plans: Conduct Engineering and Manufacturing Development (EMD).						
Target Control/Target Threat Sim./Target Aux. & Augmentation Sys. Continue to support Target Control (TC) and Target Auxilliary & Augmentation System (TA/AS) capable of supporting T&E and fleet training activities. TC involves the improved command and control systems capable of controlling multiple targets simultaneously while delivering adequate fidelity of T&E telemetry data. Augmentation and Auxilliary systems must be capable of augmenting targets in support of radar acquisition test, electronic countermeasures (jamming) evaluation, infrared measurement/test, radar cross section evaluation, decoy effectiveness, maneuver analysis, electronic warfare, warhead effectiveness and evaluation of fleet tactics, readiness and training. FY 2009 Accomplishments: Filthy Badger incremental upgrade FY08 completed. Unit meets requirements. Delivery of enhanced DPT-2B threat emitter. Unit inducted for evaluation. Awarded contracts for MPM Second Source and Filthy Badger incremental upgrade. Intelligence gathering and exploitation ongoing. CDR for Measure and Set system completed. FY 2010 Plans: Plan to award Filthy Buzzard Advanced Digital Radio Frequency Modulators (DRFM): Phase III SBIR contract will establish a five year IDIQ contract for first article development and production quantities.		7.214	6.157	6.949	0.000	6.949

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B. Accomplishments/Planned Program (\$ in Millions)											
						FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	
FY 2011 Base Plans: Filthy Badger DRFM - incremental upgrade planned. Millimeter wave threat emitter - development of two prototypes planned. E/F Band RF Deck for Modulator controller - development of two prototypes planned. Millimeter Wave Antennas - development of two prototypes planned for each of the 6 different types required. E/F Band Integrated Stabilized RF Source - development of two prototypes planned.											
Accomplishments/Planned Programs Subtotals						47.648	55.390	49.456	0.000	49.456	
C. Other Program Funding Summary (\$ in Millions)											
Line Item	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total	FY 2012	FY 2013	FY 2014	FY 2015	Cost To Complete	Total Cost
• WPN 22800: Aerial Targets	78.581	43.349	43.988	0.000	43.988	78.421	76.161	72.532	74.079	Continuing	Continuing
• WPN 31200: Spares and Repair Parts	1.461	0.820	1.422	0.000	1.422	1.554	1.559	1.485	1.562	Continuing	Continuing
D. Acquisition Strategy											
N/A											
E. Performance Metrics											
EFFORT	PERFORMANCE REQUIREMENT		OBJECTIVE		THRESHOLD		TEST RESULT				
SSAT EMD program	Maximum Speed at Low Altitude [Mach (M) at feet (ft) above wave crest at WMO Sea State conditions]		0.95 M @ 6.6 ft @ Sea State 5		0.90 M @10.0 ft @ Sea State 3		TBD				
MSST	Speed of separated sprint		Mach 2.2 to Mach 3.5		Threshold=Objective		TBD				

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EMD	vehicle				
TC-TA/AS TTSP	Microwave power module - Second Source	100 Watts output power	Threshold=Objective	TBD	

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
0610: <i>Wpn Sys T&E Trng Dev/Proc</i>	26.068	22.671	15.190	0.000	15.190	20.788	22.499	23.157	23.757	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification This project provides for the development and procurement of aerial targets and associated systems used exclusively for test and evaluation of naval weapons systems which closely represent current and projected threats to fleet units in the Joint Strike and the Littoral Warfare environments. These representations must include characteristics related to size, performance envelope, and electromagnetic and infrared signatures. As threats change, changes must be made to keep the targets threat representative in response to changes in the test requirements of the developers of naval weapons systems.											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Air Superiority Target The Air Superiority Target (AST) is being developed as the follow-on to the current Full Scale Aerial Target (FSAT). The AST will be a supersonic, high altitude, remote-controlled aerial target. This target will have full command and control capability through normal flight maneuvers. <i>FY 2009 Accomplishments:</i> Developed and released RFP. <i>FY 2010 Plans:</i> Award contract and begin Engineering and Manufacturing Development (EMD). <i>FY 2011 Base Plans:</i> Continue conduct of Engineering and Manufacturing Development (EMD).							8.635	6.500	4.000	0.000	4.000

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B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
QF-4 Full-scale Aerial Target The FSAT is a supersonic, high altitude, remote-controlled aerial target. This target has full command and control capability through normal flight maneuvers. Continued program, engineering and logistics support for the FSAT, including Aviation Depot Level Repairables (AVDLR), procurement of kit material and conversion of F-4 aircraft into FSAT targets. QF-4 procurements support aircraft and weapons systems testing and development, including that of the JSF, AIM-9X, AMRAAM and SM-6. FY 2009 Accomplishments: Accomplished the procurement of 5 QF-4 aircraft target. FY 2010 Plans: Plan to procure 5 QF-4 aircraft targets. FY 2011 Base Plans: Plan to maintain and operate the fielded inventory earmarked for the Navy. Plan to procure 3 QF-4 aircraft targets.	16.463	15.131	9.894	0.000	9.894
Target Control/Target Aux. & Aug. Systems and Scoring Systems Continue to support Target Control (TC) and Target Auxiliary and Augmentation Systems (TA/AS) capable of supporting T&E activites. TC involves the improved command and control systems capable of controlling multiple targets simultaneously while delivering adequate fidelity of T&E telemetry data. Augmentation and Auxiliary systems must be capable of augmenting targets in support of radar acquisition test, infrared measurement/test, radar cross section evaluation, decoy effectiveness, maneuver analysis, warhead effectiveness, and evaluation of fleet tactics, readiness and training. Scoring systems include both surface and airborne scalar and vector scoring.	0.970	1.040	1.296	0.000	1.296

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B. Accomplishments/Planned Program (\$ in Millions)						
		FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
<p><i>FY 2009 Accomplishments:</i> Scoring Systems completed the design/development, First Article Testing (FAT), and Qualification Testing (QT) for the Telemetry (TM) Antenna on the BQM-74 Target. Cross Bow live fire testing completed for the Vector Doppler Scoring (VDOPS) Small Business Innovation Research (SBIR) program.</p> <p><i>FY 2010 Plans:</i> Plan to complete the design/development, First Article Testing (FAT), and Qualification Testing (QT) for the Telemetry (TM) Antenna on the Multi-Stage Supersonic Target (MSST).</p> <p><i>FY 2011 Base Plans:</i> Continue pursuing alternative Test Set Repair sources.</p>						
Accomplishments/Planned Programs Subtotals		26.068	22.671	15.190	0.000	15.190
C. Other Program Funding Summary (\$ in Millions) N/A						
D. Acquisition Strategy N/A						
E. Performance Metrics						
EFFORT	PERFORMANCE REQUIREMENT	OBJECTIVE	THRESHOLD	TEST RESULT		
QF-4 Full Scale Target	Flight Termination Sys.- Reliable & effective auto & manual failsafe fast destruct, orbit destruct, & destruct receiver capability	Achieve requirement	Threshold=objective	Satisfactory		

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AST - Air Superiority Target (QF-16)	Capable of carrying, operating and monitoring required payloads	Achieve requirement	Threshold=objective	TBD	

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COST (\$ in Millions)	FY 2009 Actual	FY 2010 Estimate	FY 2011 Base Estimate	FY 2011 OCO Estimate	FY 2011 Total Estimate	FY 2012 Estimate	FY 2013 Estimate	FY 2014 Estimate	FY 2015 Estimate	Cost To Complete	Total Cost
0612: <i>Surface Targets Development</i>	2.302	1.212	1.420	0.000	1.420	1.431	1.455	1.488	1.518	Continuing	Continuing
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0		
A. Mission Description and Budget Item Justification This project develops seaborne targets and their related target augmentation systems in support of air-to-surface and surface-to-surface weapons test and evaluation and fleet training. This project unit includes \$0.011 Million for the Acquisition Workforce in FY2009.											
B. Accomplishments/Planned Program (\$ in Millions)											
							FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Surface Targets Development <i>FY 2009 Accomplishments:</i> Developed Low Cost Modular Target (LCMT), a tow target to replace three more expensive tow targets; Fast Attack Craft Target (FACT) transitioned to production program; Developed new Harpoon target based on LCMT to replace QST-35 Harpoon configuration; Developed instrumentation and provided craft in support of Special Operations Command (SOCOM) Combatant Craft Medium project; Supported demonstration of autonomous UAV/USV control for Broad Area Maritime Surveillance (BAMS); Integrated 3 axis solid state gyro into target autopilots to improve performance; Conducted at sea IR (Infrared) measurements of targets;							2.291	1.212	1.420	0.000	1.420

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B. Accomplishments/Planned Program (\$ in Millions)					
	FY 2009	FY 2010	FY 2011 Base	FY 2011 OCO	FY 2011 Total
Similarly, conducted RCS (radar cross section) measurements of target platforms at sea to assist in threat characterization; FY 2010 Plans: Create, tune, and test navigation algorithms and modes for SeaCAN targets including waypoint modes and formation control. Monitor developments in command & control Review capabilities of inventory WRT threat, weapons test schedules and Fleet training requirements. Re-baseline Radar Cross Section (RCS) for HSMST and SDST with augmentation. Develop packages to tailor RCS. Develop a realistic human target including IR signature and vulnerability. Perform signature characterization of all powered targets including IR and EO regimes. Investigate building tow targets from polyethylene. Develop deployable tow for SDST. Develop steerable tow as force multiplier. FY 2011 Base Plans: Continued development of complex-word Command and control interfaces; Monitor evolving threats in small-craft world and evolve target platforms/configurations to address threats; Develop signature management techniques to address evolving threats; Develop prototypes of polyethylene target platforms; Enhanced capabilities (sensors) for human target simulator to include lethality scoring;					
ACQUISITION WORKFORCE FUND FY 2009 Accomplishments: Funded DoD Acquisition Workforce Fund.	0.011	0.000	0.000	0.000	0.000
Accomplishments/Planned Programs Subtotals	2.302	1.212	1.420	0.000	1.420

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C. Other Program Funding Summary (\$ in Millions)

<u>Line Item</u>	<u>FY 2009</u>	<u>FY 2010</u>	<u>FY 2011</u> <u>Base</u>	<u>FY 2011</u> <u>OCO</u>	<u>FY 2011</u> <u>Total</u>	<u>FY 2012</u>	<u>FY 2013</u>	<u>FY 2014</u>	<u>FY 2015</u>	<u>Cost To</u> <u>Complete</u>	<u>Total Cost</u>
• OPN/5455: ASW Range SE	17.086	7.234	7.121	0.000	7.121	6.144	7.228	7.357	7.490	0.000	59.660

D. Acquisition Strategy
N/A

E. Performance Metrics
Review capability of inventory with respect to threat, weapons test schedules and fleet training requirements. OBJECTIVE: Available inventory of seaborne targets to meet fleet requirements.

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